

5100

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See P. 6



PCT

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/914,191**

DATE: 01/21/2003

TIME: 10:03:31

Input Set : **A:\1377-0170P.ST25.txt**Output Set: **N:\CRF4\01212003\I914191.raw**

3 <110> APPLICANT: BRADY, Hugh Redmond et al.

5 <120> TITLE OF INVENTION: Identification of genes having a role in the
6 presentation of diabetic nephropathy

8 <130> FILE REFERENCE: 1377-0170P

10 <140> CURRENT APPLICATION NUMBER: US 09/914,191

C--> 11 <141> CURRENT FILING DATE: 2001-12-19

13 <150> PRIOR APPLICATION NUMBER: 990157

14 <151> PRIOR FILING DATE: 1999-02-26

16 <160> NUMBER OF SEQ ID NOS: 33

18 <170> SOFTWARE: PatentIn Ver. 2.1

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 598

22 <212> TYPE: DNA

23 <213> ORGANISM: Homo sapiens

25 <220> FEATURE:

26 <221> NAME/KEY: Unsure

27 <222> LOCATION: (1)..(598)

28 <223> OTHER INFORMATION: any n =a,c,g,t any unknown or other

30 <400> SEQUENCE: 1

31 ttggaatagt tcttgcttta taaaaatagt actgcgatta aaaaaaaagc acttctgcc 60

32 aaggaacat gttccaacac cgcaacaag gtgttctgct taaacagagt aagatacacc 120

33 acccccatcc atcccttctt tccctgttcc cctcccaact tgagttgtgt cattcgcacc 180

34 agtgtcctgg gtggtaggga tgctacagcc acctaaggca aggagccctg ggaggtggga 240

35 gggcttgcac ggtaagcac accagaactg aagcgcaaaa gggtcagctg tcttcattca 300

36 gaatctctgg atgttccttc cagaaagcat ccccgatgat atcgagtgac aagggcactg 360

37 gctttgtcct ggtccgggtc actgccatct tttttccttc catttctgtt ggcagcttaa 420

38 tttcttttgt catcacttca tccaccttct gccatatcaa cacagtcctt ttcctataca 480

39 tcggcagctc attattatag ttgatgttga attcagaaaa caaaatctca ttcttgtctg 540

W--> 40 ctgnaagagt tccctgtaat ctcccttggg cttgtactgg tgttagtcca gattgttg 598

43 <210> SEQ ID NO: 2

44 <211> LENGTH: 761

45 <212> TYPE: DNA

46 <213> ORGANISM: Homo sapiens

48 <220> FEATURE:

49 <221> NAME/KEY: Unsure

50 <222> LOCATION: (1)..(761)

51 <223> OTHER INFORMATION: any n =a,c,g,t any unknown or other

53 <400> SEQUENCE: 2

54 ggtcctttta agtctggttg ctgggataca ccacgactct tccggtcaaa gcctggggga 60

55 tacagaagg gctrgtcctc aaagtaatcc cgccaataaa acayatagct ggaggcaaac 120

56 tgggaggyca cgtgagtcac gaactttact ggctcttctt ttaaaccaat tggttttccg 180

57 cttgwacaca aagctgtact catcactctg tccataacgc gatcacaata tcctctagtt 240

58 cttccatcac agtctgcgca catttggtca tcagctggag agcacggctg tcattggggt 300

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Input Set : A:\1377-0170P.ST25.txt
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W--> 59 ttgcaaagtt gtgcttctca gcaaaccgat ggaaattccg gccgtccagc cgnactacca 360
60 cccagcagtg tgccaggcag gtgtcgtcag cctcgaagtc cctcacgtac tcgaacttgc 420
61 tttttgccat ggtcgccccc aatctcaggt accgtctcag agtgatggaa atggtggcca 480
62 aggaatcgtg aaccttaact ttacaggcgc cccacattct acacgcggaa aggaaagggc 540
63 cagatagccc cgccccggaa gtgttctctt cgtggctact ctaggcgtag ggcggtcata 600
64 gtctctctcg scctcccttg kagttcttaa mcyycaggg aaaraggatg gaggtttagg 660
65 ttcctccgtt agcaccttcc acgcttgctt ctctctctc ccggtctgcg gcaaatcagt 720
66 ctcacgaggt ttttaaaaat tattttttat ctgctggcct t 761
69 <210> SEQ ID NO: 3
70 <211> LENGTH: 393
71 <212> TYPE: DNA
72 <213> ORGANISM: Homo sapiens
74 <220> FEATURE:
75 <221> NAME/KEY: Unsure
76 <222> LOCATION: (1)..(393)
77 <223> OTHER INFORMATION: any n =a,c,g,t any unknown or other
79 <400> SEQUENCE: 3
80 atgacacaaa tattaggatt ttattttttac tattatccac cagcaacaag atatcaaaca 60
81 ctggtttctgt gattatttaa tggtagaaaaa gttgaataaa tcaatttagt ataccatat 120
82 gttggaatat tgagtcattt tttcttttaa aaatcacact ttggaataat tgatgatact 180
83 ggcaaatgct caagctgagt ggaaaaatat ataaacattg tataggcgaa taattccaat 240
84 cttgtgcatt ccctgtgtaa acctacatac acaaaaagaa aaaagactga aaggaacct 300
85 ccacaatgct ttgatcgga aagacggaga aacaaagtgt taattttctt aactatagtt 360
W--> 86 ttnggtgtat tccagatttt ctacaagtta ata 393
89 <210> SEQ ID NO: 4
90 <211> LENGTH: 435
91 <212> TYPE: DNA
92 <213> ORGANISM: Homo sapiens
94 <400> SEQUENCE: 4
95 gtactttgga tttggttaac ctgttttctt caagcctgag gttttatata caaactccct 60
96 gaatactctt tttgcctgt atcttctcag cctcctagcc aagtcctatg taatatggaa 120
97 aacaaacact gcagacttga gattcagttg ccgatcaagg ctctggcatt cagagaacct 180
98 ttgcaactcg agaagctgtt tttatttctg ttttgttttg atccagtgtc ctcccatcta 240
99 acaactaaac aggagccatt tcaaggcggg agatatttta aacacccaaa atggttgggt 300
100 ctgattttca aactttttaa attcactact gatgattctg cacgctaagg cgaatttggg 360
101 ccaaacacat aagtgtgtgt gttttgtata cactgtatga cccaccccca aatctttgta 420
102 ttgtccacat tctcc
105 <210> SEQ ID NO: 5
106 <211> LENGTH: 273
107 <212> TYPE: DNA
108 <213> ORGANISM: Homo sapiens
110 <220> FEATURE:
111 <221> NAME/KEY: Unsure
112 <222> LOCATION: (1)..(273)
113 <223> OTHER INFORMATION: any n =a,c,g,t any unknown or other
115 <400> SEQUENCE: 5
W--> 116 agaagcaatt taggaanccn acagnaaana aatgctgttt tataggagag aaaacacggc 60
117 acaccaaggt taagtagttt gtacacgatg ttgaataggt tcaggtagag gtcaatgcag 120
W--> 118 tgatgaggaa agcacctang tatacttgac agatagtccc ctttgcttaa caccacactc 180

```

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W--> 119 ctccaccctg tgcagtttnn cttgtgccag tgatcacagg attcgctgag tgaattacca 240
120 taattggatt taattcacga aggggatgtt ttc 273
123 <210> SEQ ID NO: 6
124 <211> LENGTH: 309
125 <212> TYPE: DNA
126 <213> ORGANISM: Homo sapiens
128 <400> SEQUENCE: 6
129 attgatagag gccctgtttc atgacatttc atgagtttca atatgttggt cagcatgttg 60
130 tgagggtgact ctcagcccct ttcccactga gatggactgt ggtgatgctg tgagggtgtg 120
131 actgacacac cttcatgtgc ccaagcatgg gtttgatcac aggtcacatg cagtttttgg 180
132 catagtaa at gtatcattgt tcttttcctc cctcctaaag gaaacagagg aatccacctg 240
133 tatgagagtg ccatgtaggg ataaacttaa aggacagatg acacattggt catgttcgtg 300
134 ataaggaaa 309
137 <210> SEQ ID NO: 7
138 <211> LENGTH: 20
139 <212> TYPE: DNA
140 <213> ORGANISM: Homo sapiens
142 <400> SEQUENCE: 7
143 accacagtcc atgccatcac 20
146 <210> SEQ ID NO: 8
147 <211> LENGTH: 20
148 <212> TYPE: DNA
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 8
152 tccaccaccc tgttgctgta 20
155 <210> SEQ ID NO: 9
156 <211> LENGTH: 20
157 <212> TYPE: DNA
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 9
161 ggtcttcctg gcttaaagg 20
164 <210> SEQ ID NO: 10
165 <211> LENGTH: 20
166 <212> TYPE: DNA
167 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 10
170 gctggtcagc cctgtagaag 20
173 <210> SEQ ID NO: 11
174 <211> LENGTH: 20
175 <212> TYPE: DNA
176 <213> ORGANISM: Homo sapiens
178 <400> SEQUENCE: 11
179 ccaggagttc caggatttca 20
182 <210> SEQ ID NO: 12
183 <211> LENGTH: 20
184 <212> TYPE: DNA
185 <213> ORGANISM: Homo sapiens
187 <400> SEQUENCE: 12
188 ttttgggtccc agaaggacac 20

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RAW SEQUENCE LISTING

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Input Set : A:\1377-0170P.ST25.txt

Output Set: N:\CRF4\01212003\I914191.raw

```

191 <210> SEQ ID NO: 13
192 <211> LENGTH: 18
193 <212> TYPE: DNA
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 13
197 cgaaatcaca gccagtag 18
200 <210> SEQ ID NO: 14
201 <211> LENGTH: 18
202 <212> TYPE: DNA
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 14
206 atcacatcca cacggtag 18
209 <210> SEQ ID NO: 15
210 <211> LENGTH: 20
211 <212> TYPE: DNA
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 15
215 ctaagacctg tggaatgggc 20
218 <210> SEQ ID NO: 16
219 <211> LENGTH: 21
220 <212> TYPE: DNA
221 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 16
224 ctcaaagatg tcattgtccc c 21
227 <210> SEQ ID NO: 17
228 <211> LENGTH: 20
229 <212> TYPE: DNA
230 <213> ORGANISM: Homo sapiens
232 <400> SEQUENCE: 17
233 atgagccgca cagcctacac 20
236 <210> SEQ ID NO: 18
237 <211> LENGTH: 23
238 <212> TYPE: DNA
239 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 18
242 ttaatccaaa tcgatggata tgc 23
245 <210> SEQ ID NO: 19
246 <211> LENGTH: 21
247 <212> TYPE: DNA
248 <213> ORGANISM: Homo sapiens
250 <400> SEQUENCE: 19
251 ctcagcctcc tagccaagtc c 21
254 <210> SEQ ID NO: 20
255 <211> LENGTH: 21
256 <212> TYPE: DNA
257 <213> ORGANISM: Homo sapiens
259 <400> SEQUENCE: 20
260 gtattgtcca cattctccaa c 21
263 <210> SEQ ID NO: 21

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RAW SEQUENCE LISTING

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Input Set : A:\1377-0170P.ST25.txt

Output Set: N:\CRF4\01212003\I914191.raw

```

264 <211> LENGTH: 20
265 <212> TYPE: DNA
266 <213> ORGANISM: Homo sapiens
268 <400> SEQUENCE: 21
269 atgagccgca cagcctacac                20
272 <210> SEQ ID NO: 22
273 <211> LENGTH: 21
274 <212> TYPE: DNA
275 <213> ORGANISM: Homo sapiens
277 <400> SEQUENCE: 22
278 gtattgtcca cattctccaa c                21
281 <210> SEQ ID NO: 23
282 <211> LENGTH: 20
283 <212> TYPE: DNA
284 <213> ORGANISM: Homo sapiens
286 <400> SEQUENCE: 23
287 gagagtcaca cgtgtgaagc                20
290 <210> SEQ ID NO: 24
291 <211> LENGTH: 19
292 <212> TYPE: DNA
293 <213> ORGANISM: Homo sapiens
295 <400> SEQUENCE: 24
296 aggaggatgc aagcacagg                19
299 <210> SEQ ID NO: 25
300 <211> LENGTH: 29
301 <212> TYPE: DNA
302 <213> ORGANISM: Homo sapiens
304 <400> SEQUENCE: 25
305 cgcggatcct gcttcttaga cggactgcg        29
308 <210> SEQ ID NO: 26
309 <211> LENGTH: 20
310 <212> TYPE: DNA
311 <213> ORGANISM: Homo sapiens
313 <400> SEQUENCE: 26
314 tttgctgtac tagcgacacc                20
317 <210> SEQ ID NO: 27
318 <211> LENGTH: 18
319 <212> TYPE: DNA
320 <213> ORGANISM: Homo sapiens
322 <400> SEQUENCE: 27
323 caagatgaac acagctgg                18
326 <210> SEQ ID NO: 28
327 <211> LENGTH: 18
328 <212> TYPE: DNA
329 <213> ORGANISM: Homo sapiens
331 <400> SEQUENCE: 28
332 gctcaggata ctcaagac                18
335 <210> SEQ ID NO: 29
336 <211> LENGTH: 341

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/914,191

DATE: 01/21/2003
TIME: 10:03:32

Input Set : A:\1377-0170P.ST25.txt
Output Set: N:\CRF4\01212003\I914191.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 544
Seq#:2; N Pos. 353
Seq#:3; N Pos. 363
Seq#:5; N Pos. 17,20,25,29,139,199,200

VERIFICATION SUMMARY

DATE: 01/21/2003

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TIME: 10:03:32

Input Set : A:\1377-0170P.ST25.txt

Output Set: N:\CRF4\01212003\I914191.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:540
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:300
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:360
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:120
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:180